INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2005/002394

A. CLASSIFICATION OF SUBJECT MATTER Int.Cl⁷ H01L21/31, C23C16/44, H01L21/3065

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ H01L21/31-21/32, C23C16/00-16/56, H01L21/3065

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Jitsuyo Shinan Koho 1922–1996 Jitsuyo Shinan Toroku Koho 1996–2005 Kokai Jitsuyo Shinan Koho 1971–2005 Toroku Jitsuyo Shinan Koho 1994–2005

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
. Y	JP 2001-250818 A (Tokyo Electron Ltd.), 14 September, 2001 (14.09.01),	1-6,11-17, 22-45
A	Full text & US 2002/020433 A1 & KR 2001081981 A	7-10,18-21
Y	JP 2001-127280 A (Sony Corp.), 11 May, 2001 (11.05.01), Par. No. [0022] (Family: none)	1-4,11-15, 22-25,28,29, 30,38
Y	JP 9-249975 A (Central Glass Co., Ltd.), 22 September, 1997 (22.09.97), Claims (Family: none)	1-4,11-15, 22-25,28,29, 31,32

×	Further documents are listed in the continuation of Box C.		See patent family annex.		
* "A"	Special categories of cited documents: document defining the general state of the art which is not considered to be of particular relevance	-T"	later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention		
-E-	filing date		document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		
"O" "P"	cited to establish the publication date of another citation or other special reason (as specified) document referring to an oral disclosure, use, exhibition or other means document published prior to the international filing date but later than the priority date claimed	"Y" -&"	document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art document member of the same patent family		
Date of the actual completion of the international search 11 May, 2005 (11.05.05)		Date of mailing of the international search report 31 May, 2005 (31.05.05)			
Name and mailing address of the ISA/ Japanese Patent Office		Authorized officer			
	mile No.	Tele	phone No.		

Form PCT/ISA/210 (second sheet) (January 2004)

BEST AVAILABLE COPY

INTERNATIONAL SEARCH REPORT

International application No.
PCT/JP2005/002394

		PCT/JP20	005/002394
C (Commutation).	DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the releva	int passages	Relevant to claim No.
Y	JP 8-92769 A (Toshiba Corp.), 09 April, 1996 (09.04.96), Claims (Family: none)		1-4,11-15, 22-25,28,29, 31,32
Y	JP 2000-294550 A (Tokyo Electron Ltd.), 20 October, 2000 (20.10.00), Full text & KR 2000076774 A & US 6399520 B1 & TW 489396 A		5,6,16,17, 36,37,41,42
Y	JP 2001-15398 A (Toshiba Corp.), 19 January, 2001 (19.01.01), Claims & CN 1280343 A & KR 2001029860 & & TW 494462 A & US 6745094 B1	. A	26,27,43,44
Y	<pre>JP 5-102089 A (Tokyo Electron Ltd.), 23 April, 1993 (23.04.93), Claims (Family: none)</pre>		30-42,45
			·